

CLAIMS

1. A method of fast case-sensitive search of a dictionary using one or more search terms, wherein the dictionary comprises an ordered list of terms, the method comprising:

setting a dictionary sorting function to sort the ordered list of terms based on case sensitivity;

determining, according to the dictionary sorting function, whether a term corresponding to a search term is in an upper or lower half of the ordered list; and

selecting an upper or lower half of the ordered list that includes the search term.

2. A method in accordance with claim 1, further comprising determining whether the term corresponding to the search term is in an upper or lower half of a previously-selected upper or lower half of the ordered list.

3. A method in accordance with claim 2, further comprising selecting an upper or lower half of the previously-selected upper or lower half of the ordered list that includes the search term.

4. A method in accordance with claim 3, further comprising determining whether the term corresponding to a search term is a last term in an upper or lower half of a remaining ordered list.

5. A method in accordance with claim 4, further comprising, if the term corresponding to a search term is the last term in an upper or lower half of the remaining ordered list, returning the term to a search engine.

6. A method of fast case-insensitive search of a dictionary using one or more search terms, wherein the dictionary comprises an ordered list of terms, the method comprising:

setting a dictionary sorting function to sort the ordered list of terms based on case-insensitivity; and

executing a binary search of the dictionary according to the dictionary sorting function and based on the binary numbers corresponding to the ASCII coding of alphanumeric characters in the ordered list of terms.

7. A method in accordance with claim 6, further comprising determining whether each term in the ordered list is insensitively equal to a search term.

8. A method in accordance with claim 7, further comprising, if a term in the ordered list is insensitively equal to a search term, adding the term to a result list.

9. A method in accordance with claim 7, further comprising, if a term in the ordered list is not insensitively equal to a search term, evaluating a next term in the ordered list.

10. A method in accordance with claim 8, further comprising:

compiling one or more terms in the result list; and
returning the result list to a search engine.

11. A method in accordance with claim 6, further comprising determining a last term of the ordered list that is insensitively equal to a search term.

12. A method in accordance with claim 11, further comprising converting the search term to all lowercase characters to obtain the last term.

13. A system for fast case-sensitive search of a dictionary using one or more search terms, wherein the

dictionary comprises an ordered list of terms, the system comprising:

a search engine configured to receive a user search query for a search of the dictionary, and to return a search result list, and wherein the search engine is further configured to enable a user to select whether to perform a case-sensitive or case-insensitive search of the dictionary; and

an ordering module configured to order the terms in the dictionary based in part on the binary numbers corresponding to the ASCII coding of alphanumeric characters comprising the terms in the dictionary.

14. A system in accordance with claim 13, wherein the ordering module comprises a dictionary sorting function that sorts the ordered list of terms based on case-sensitivity or case-insensitivity in accordance with a user selection from the search engine.